



**RIC 2013
Changes to Requalification
Inspection Procedure 71111.11**

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What Changed in IP 71111.11?

- Not many changes to what we inspect during the biennial inspections
- How we inspect has changed
- Inspection activities more predictable/repeatable/prescribed by use of Appendices to IP 71111.11
- New Significance Determination Process (SDP) for requalification issues

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IP 71111.11 Objectives (2000)

- Assure facility licensee's requalification program ensures safe power plant operation
- Verify licensee's effectiveness in evaluating and revising the requalification program based on feedback
- Ensure licensed operators satisfy the conditions of their licenses as specified in 10 CFR 55.53.
- Supply regional management with the information necessary to determine the need for additional inspections or NRC developed & administered examinations.

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IP 71111.11 Objectives (2012)

- Evaluate licensed operator performance during requalification examinations, other examinations, training exercises, and in the actual plant/main control room.
- Assess the facility licensee’s ability to evaluate the performance of their licensed operators during NRC requalification examinations, other examinations, and training exercises.
- Assess the facility licensee’s ability to properly develop and administer requalification annual operating tests and biennial written examinations.

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IP 71111.11 Objectives (2012)

- Assess the performance of the control room simulator, and the facility licensee’s testing and maintenance of the control room simulator
- Assess the facility licensee’s effectiveness in ensuring that the individuals who are licensed to operate the facility satisfy the conditions of their licenses as specified in 10 CFR 55.53 and 10 CFR 55.59.
- Assess the facility licensee’s effectiveness in identifying and resolving problems related to licensed operator performance.

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**Inspection Requirements
Original**

- Inspection Composition (02.01)
- Sample Selections (02.02)
- Review the Facility’s Operating History (02.03)
- Review the Facility Licensee’s Requalification Examinations (02.04)
- Observe Licensee’s Administration of Exams (02.05)
- Review the Facility Licensee’s Feedback System (02.06)
- Review the Facility Licensee’s Remedial Training (02.07)
- Conformance With Operator License Conditions. (02.08)
- Resident Quarterly Review (02.09)

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Inspection Requirements New

- Inspection Composition (02.01)
- Sample Selections (02.02)
- Biennial Requalification Written Examination Quality (02.03)
- Annual Requalification Operating Test Quality (02.04)
- Observe Licensee Administration of an Annual Requalification Operating Test (02.05)
- Requalification Examination Security (02.06)
- Licensee Remedial Training and Re-examinations. (02.07)
- Conformance With Operator License Conditions. (02.08)
- Simulator Performance. (02.09)

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Inspection Requirements New

- Problem Identification and Resolution (02.10)
- Resident Inspector Quarterly Review of Licensed Operator Requalification and Licensed Operator Performance (02.11)

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Increased emphasis on Operator Performance

- Resident Inspector activities
 - Added 4 hours review of licensed operator performance in plant/CR during heightened activity/risk.
 - Inspection guidance prioritizes monitoring of simulator evaluations over training activities with emphasis on:
 - Operator performance
 - Facility’s administration of evaluations
 - Facility’s ability to effectively evaluate operator performance
 - Simulator fidelity and performance

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Increased emphasis on Operator Performance

- Problem Identification and Resolution (PI&R)
 - Inspection focus on review & assessment of the ability of the facility licensee to identify, evaluate, and resolve problems associated with licensed operator performance
 - Emphasis on in-plant activities and operator performance
 - Replaces/restructures review of “Plant Operating History”

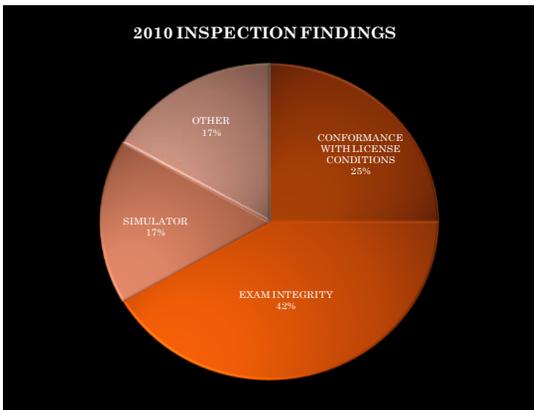
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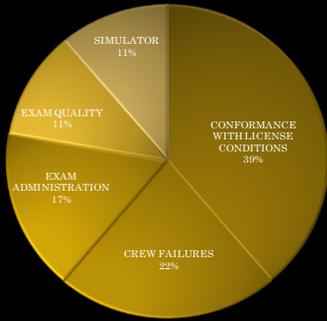
Observations & Issues

- Violations and Findings
 - ROP versus Traditional
 - Shift in identified areas
- Exam Material Quality
- Training versus Operations
- Problem Identification and Resolution
- Focus On Performance & Safety

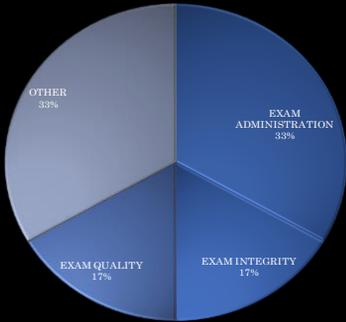
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2011 INSPECTION FINDINGS



2012 INSPECTION FINDINGS





Procedure & Training Focus?

- Operator Performance (INPO SER 3-05 and IER 11-3)
- Possible that experience level of operating crews has begun to diminish as more seasoned operators retire or move to other positions in the organization.
- Newer operators tend to be less familiar with and less sensitive to system response and integrated plant response than more experienced operators.
- Being unfamiliar with how the plant responds when operator actions are performed can sometimes result in unintended consequences.



Operator Performance Events

- While performing turbine valve testing, control room operators **incorrectly operated** turbine controls resulting in an inadvertent power increase from 88% to 96%.
- Control room operators **failed to implement** reactivity standards during startup which contributed to an **unrecognized** sub-criticality followed by an unrecognized return to criticality and subsequent reactor scram.
- **Failure to monitor** important indications resulted in auto Safety Injection, uncontrolled cool down, and challenge to Reactor Coolant Pump seal cooling.
- **Missed procedure step** results in Auto Scram.
- **Failure to ensure** that procedure was applicable for existing conditions resulted in re-energizing a faulted electrical bus.

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Insights & Lessons Learned

- Inspectors' use and understanding of the new IP 71111.11
- Effectiveness of the new procedure
- Continued evaluation and assessment of IP 71111.11
- Industry's insights, perspectives and feedback
- Panel Discussion

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